

**FURTHER HOST RECORDS OF SOME WEST PALAEARCTIC
TACHINIDAE (DIPTERA)**T.H. FORD¹, M.R. SHAW² AND D.M. ROBERTSON²¹ 39 Ashbury Drive, Sheffield, S8 8LE² National Museums of Scotland, Chambers Street, Edinburgh, EH1 1JF

SINCE OUR FIRST list of rearings of tachinids from hosts from various sources was published (Ford & Shaw, 1991) enough further material has been received from correspondents and reared by ourselves to merit an additional list. The notes which introduced the previous list are relevant to the present one, but are repeated here (with minor changes) for the sake of convenience. The nomenclature and arrangement of the British species of Tachinidae are according to Chandler (1998); non-British species follow the same arrangement but nomenclature is according to Herting & Dely-Draskovits (1993). The lepidopterous hosts are listed according to Kloet & Hincks (1972). Unless otherwise indicated:

- (i) records are British,
- (ii) hosts are Lepidoptera and have been determined by the collector whose initials are given in parenthesis at the end of the entry,
- (iii) British tachinids, with a few exceptions, and some of the continental ones were identified by T.H. Ford but most of the non-British specimens were submitted for determination or confirmation to Dr B. Herting and Dr H-P. Tschorsnig at the Staatliches Museum für Naturkunde at Stuttgart. For each tachinid species included here the following data are given, if available: the name of the host; the number and sex of the parasitoids which is presumed to be also the number of individual hosts killed unless the word "brood" is used; the stage at which the host was killed, i.e. larva(ae), prepupa(ae) or pupa(ae); up to three dates, indicating (a) date of collection of the material; (b) emergence of the parasitoid larva from the host (preceded by the abbreviation "p.l.e." where it is necessary to indicate the event to which the date relates); (c) eclosion of the the parasitoid imago (preceded by the abbreviation "em." where necessary) [unless stated otherwise, only two dates = (a) and (c), and only one date = (a)]; the locality; the initials of the collector, or collector/identifier if not the same person. Notes on host associations and other comments are given only where they extend or qualify information available from Ford & Shaw (1991) or Belshaw (1993), in which case they are derived chiefly from Herting (1960) and the unpublished database compiled and maintained by Dr Herting and Dr Tschorsnig. Reference to new host records in the notes means new to the above database since it was first received by us in 1992 and is subordinate to any records from other sources that may have been received by Dr Herting and Dr Tschorsnig since that date.
- (iv) The specimens are, or are destined to be, deposited in the National Museums of Scotland.

DEXIINAE

Voriini

Athyrcia trepida (Meigen). *Orthosia gracilis* (Denis & Schiffermüller) on *Myrica*: brood of 1 male 1 female, ex larva, 4.vii.92, vii.92, 7-25.v.93, and 2 females, ex larvae, 4.vii.92, vii.92, 25.v-24.vi.93, Resipole, Argyll (MRS); *Orthosia ?gothica* (L.) on *Myrica/Calluna*: brood of 1 male 1 female, ex larva, 4.vii.92, 10.vii.92, 12.v.93, Kentra, Argyll (MRS).

Blepharomyia pagana (Meigen). *Lycia hirtaria* (Clerck): 1 female, ex larva, vi.90, vii.90, FRANCE [Le Muy, Var] (THF); *Erannis defoliaria* (Clerck): 1 female, ex larva, v.97, iii.98, Sheffield, South Yorkshire (THF); *Theria primaria* (Haworth) (= *rupicapraria* sensu auctt.) on *Prunus*: 2 examples, ex larvae, 4.vi.94, vi.94, 13.iv.95, and 1 female, ex larva, 21.v.94, vi.94, 21.iv.95, Gait Barrows NNR, Lancashire (MRS).

Blepharomyia piliceps (Zetterstedt). *Eulithis populata* (L.): 5 examples, ex pupae, 22.vi.92, vii.92, 18-19.iv.93, Hathersage, Derbyshire (THF); 2 males, vii.92, viii.92, 24-26.iv.93, Fox House, Sheffield, South Yorkshire (THF).

Campylocheta inepta (Meigen). Indet. geometrid on *Myrica*: 1 male, ex larva, 4.vii.92, 11.vii.92, 1993, Kentra Moss, Argyll (MRS); *Lycia lapponaria* (Boisduval): 1 female, ex larva, 4.vii.92, vii.92, 14.viii.93, Resipole, Argyll (MRS); *Ematurga atomaria* (L.) on *Myrica*: 2 males, 6 females, ex larvae, 4.vii.92, 11-25.vii.92, 1993, Kentra, Argyll (MRS); 1 male, 1 female, ex larvae, 4.vii.92, 22.vii-1.viii.92, 4-12.v.93, Resipole, Argyll (MRS); 1 male, 2 females, ex larvae, 22.vii.92, 25.vii-5.viii.92, 4-12.v.93, Meath Moss NR, Cumbria (MRS); 1 male, ex larva, 21.vii.92, viii.92, 18.vi.93, Fish House Moss NNR, Cumbria (MRS); 3 females, ex larvae, 20.viii.93, 28.viii.93, 23-26.v.94, Beeley Moor, Derbyshire (THF); *Cabera pusaria* (L.): 1 female, ex larva, 16.ix.92, 22.ix.92, 18.vi.93, Catcliffe, South Yorkshire (THF); *Anarta myrtilli* (L.): 1 male, ex larva, 5.vii.92, 21.vii.92, 3.v.93, Glenfinnan, Argyll (MRS); *Pseudoips prasinana* (L.): 1 male, ex larva, 11.vi.96, 1.vii.96, 31.v.97, FRANCE [Aubérive, Côte d'Or] (MRS). *L. lapponaria* is a new host record.

Cyrtophleba ruricola (Meigen). *Hecatera dysodea* (Denis & Schiffermüller) on *Lactuca*: brood of 4 (3 males emerged), ex pupa, 20.vii.93, viii.93, 2-6.v.94, FRANCE [St. Jean du Gard, Gard] (MRS); ? *Tathorhynchus exsiccata* (Lederer) on low legumes: brood of 3 females, ex larva, 17.vii.91, p.l.e. 27.vii.91, FRANCE [Haut Verdon, Alpes-de-Haute-Provence] (MRS). *H. dysodea* and, if the identification is correct, *T. exsiccata* are new host records.

Ramonda prunaria (Rondani). *Myrthimna* sp.: 1 female, ex larva, 19.vii.91, 24.vii.91, FRANCE [Briançon, Hautes-Alpes] (MRS).

Ramonda spathulata (Fallén). *Xestia* sp.: 4 examples, ex larvae, 15.iii-2.iv.93, 10.iv-2.v.93, Close House Slopes, Durham (HA); *Apamea crenata* (Hufnagel): 2 examples, ex larvae, 2.iv.93, 10.iv.93, Close House Slopes, Durham (HA).

Thelaira nigrina (Fallén) (*nigripes* (Fabricius) preocc.). *Arctia caja* (L.): 2 males, 3 females, 1985, Portslade, Sussex (ARC); *Spilosoma luteum* (Hufnagel): 1 male, 1 female, ex larvae, 5.ix.92, 10.ix.92, 22.iv and 11.v.93, Bissoe, Cornwall (THF); *Spilosoma lubricipeda* (L.): 15 examples, solitary and in broods of 2 (2 males emerged), ex larvae, viii.96, viii.96, vii.97, Ardour, Argyll (THF).

Voria ruralis (Fallén). *Autographa gamma* (L.): brood of 8, ex larva, 10.ix.94, 29.ix.94, FRANCE [Champ du Boul, Calvados] (THF); 1 female and a brood of 1 male 1 female, ex larvae, 19.vii.96, 8-10.viii.96, FRANCE [Darbres, Ardèche] (MRS).

Wagneria cunctans (Meigen). *Aporophyla lutulenta* (Denis & Schiffermüller): brood of 4 females, ex larva, 9.iii.97, 18-24.ii.98, SPAIN [Zaragoza] (GEK). This is a new host record, the only other rearing being from *Agrochola lychnidis* (Denis & Schiffermüller).

EXORISTINAE

Blondeliini

Blondelia nigripes (Fallén). *Thaumetopoea pinivora* (Treitschke): 1 male, 1 female, ex pupae, 31.vii.93, vi.94, also 2 females, viii.93, 20.viii.95 (!), SWEDEN [Öland] (CE); *Lacanobia suasa* (Denis & Schiffermüller): 1 female, ex larva, 2.ix.93, p.l.e. 27.ix.93 (died unemerged), Beeley Moor, Derbyshire (THF); *Dryobotodes eremita* (Fabricius) on *Quercus mas*: 1 male,

1 female, ex prepupae, 15.v.96, 1.vi.96, 16.vi.96, FRANCE [Bernac, Lot-et-Garonne] (MRS). The record from *L. suasa* appears to be the only British rearing record of *B. nigripes* from any host, but it has been recorded from the same host from Magdeburg (Ziegler, 1983).

Comptosia concinnata (Meigen). *Zygaena ?viciae* (Denis & Schiffermüller): 1 female, ex larva, 7-10.vii.98, 20.vii-8.viii.98, SWEDEN [Bäckebo, Småland] (CE); *Zygaena fausta* (L.): several (solitary), ex prepupae, em. 20.iv-13.v.89, PORTUGAL [Baixa Alentejo] (WGT); *Pieris brassicae* (L.): 3 males, 1 female from more than one host, ex larvae, end viii.98, Peacehaven, East Sussex (CP); *Inachis io* (L.): 2 males, 1 female, ex larvae, Southampton, Hampshire (JG); *Polygonia c-album* (L.) on *Humulus*: 1 male, ex pupa, 31.viii.94, 12.x.94, Southampton, Hampshire (JG); *Araschnia levana* (L.): 1 male, 1 female, ex larvae, em. 7.x.94, NETHERLANDS [Oss] (MCW) (Specimens returned to rearer); *Malacosoma neustria* (L.): 2 males, 4 females, ex larvae, 1997, Portslade, Sussex (ARC); *Cerura vinula* (L.) on *Salix*: brood of 2 males 4 females, ex larva, 20.vii.93, 30.vii.93, 19.viii.93, FRANCE [St. Jean du Gard, Gard] (MRS); *Euproctis chrysorrhoea* (L.): 2 males, 3 females, ex larvae, 10.vi.85, vii.85 and brood of 1 male 2 females, ex larva, 10.vi.85 vii.85, Earley, Berkshire (BTP); 2 females, ex larvae, vii.92, summer 1993, Portslade, Sussex (ARC); *Euproctis similis* (Fuessly): 1 female, ex larva, em. vii.93 and 1 male, ex larva, em. vii.93 (also produced 22 *Diolcogaster connexus* (Nees) (Hym.: Braconidae)), Hatfield Chase, Yorkshire (MCW) (Specimens returned to rearer); *Callimorpha dominula* (L.): 2 males, ex larvae, 27.vi.93, 2.vii.93, Cothill, Oxfordshire (DFO); *Cucullia lychnitis* Rambur: 4 males, 1 female, from 3 host larvae, Hampshire (DY); *Acronicta psi* (L.): 1 female, ex pupa, 1992, 21.v.93, 10.vi.93, Bisley, Surrey (GJM); *Colocasia coryli* (L.): 1 female, ex prepupa, 17.viii.84, 1.ix.84, Clumber Park, Nottinghamshire (BS). *Z. fausta*, *C. dominula* and *C. lychnitis* are new host records.

Ligeria angusticornis (Loew). *Emmelina monodactyla* (L.): 1 female (single specimen reared from fifty host larvae), ex larva, 29.vii.92, 10.viii.92, 29.viii-12.ix.92, Catcliffe, South Yorkshire (THF); *Phragmatobia fuliginosa* (L.): 1 female, 6.vi.94, 25.vi.94, 1994, Bishopton, Stratford on Avon, Warwickshire (JMP). Previously recorded from Pterophoridae whose larvae overwinter (unlike those of *E. monodactyla*). *E. monodactyla* is a new host record; *P. fuliginosa* is considered an unlikely host.

Medina collaris (Fallén). *Lochmaea suturalis* (Thomson) (Col.: Chrysomelidae): 1 male, adult, vii.92, viii.92, 29.ix.92, Matlock Moor, Derbyshire (GJM/FH); 1 male, adult, vii.92, v.93, Beeley Moor, Derbyshire (THF).

Medina separata (Meigen). *Calvia quattuordecimguttata* (L.) (Col.: Coccinellidae): 1 female, adult, 11.iv.94, 12.v.94, 25.v.94, Parklands Walk, near Miltons, London (DH); *Adalia decempunctata* (L.) (Col.: Coccinellidae): 1 female, adult, 17.vii.95, 18.vii.95, ca 8.viii.95, Old Kingsbury Colliery, Warwickshire (BM). Hawkins (1998) has recently recorded *M. separata* from *C. quattuordecimguttata*, at that time a new host record.

Vibrissina turrita (Meigen). *Arge shawi* Liston (Hym.: Argidae) on *Rosa*: several (solitary), ex prepupae, 31.v.89, pupation in host cocoon, 1989, FRANCE [8km N. of Frejus, Var] (THF). Recorded from several *Arge* spp. and from Tenthredinidae, but this is the first record from *A. shawi*.

Eryciini

Alsomyia ?olfaciens (Pandelle). *Zygaena carniolica* (Scopoli): 1 male, ex prepupa, em. vii.1991, TURKEY [Ankara] (WGT). The specimen differs slightly from typical *olfaciens*: third antennal segment narrower and shorter, scutellum reddish apically (Tschorsnig, pers. comm.).

Aplomya confinis (Fallén). *Colias* sp.: 1 male, ex larva, 13.vii.97, 14.vii.97, 22.vii.97, FRANCE [Barjols, Var] (MRS); *Aricia* sp. on *Helianthemum*: 1 male, ex larva, 10.vii.97, 14.vii.97, 23.vii.97, FRANCE [St. Maximin, Var] (MRS). Commonly reared from Lycaenidae, but this is the first record from *Colias* sp. The specimen has a very short body length suggesting that this is not a suitable host (Tschorsnig, pers. comm.).

Bactromyia aurulenta (Meigen). *Drepana cultraria* (Fabricius) on *Ulmus*: 1 male, ex larva, 24.ix.94, vi.95, High Elms, Kent (IDF); *Abraxas pantaria* (L.): 1 female, ex pupa, 22.x.97, 24.x.97, 12.xii.97, SPAIN [Garrapinol, Zaragoza] (GEK); *Pseudoips prasinana* (L.) on

- Fagus*: brood of 4 (1 male, 1 female emerged), ex larva, 24.vii.96, 18.viii.96, 1.ix.96, FRANCE [Fayl-Billot, Haute-Marne] (MRS); *Scoliopteryx libatrix* (L.) on *Salix caprea*: brood of 5 (3 males, 1 female emerged), ex larva, 5.viii.90, 21.viii.90, FRANCE [Limouzine, Vienne] (MRS); brood of 2 males 3 females, ex pupa, 24.viii.93, 1.ix.93, 11.ix.93, Silwood Park, Berkshire (JLY).
- Buquetia musca*** Robineau-Desvoidy. *Papilio machaon* L.: brood of 6 (4 males, 1 female emerged), vii.91, viii.91, FRANCE [Briançon, Hautes-Alpes] (MRS); brood of 7 (4 males, 1 female emerged), ex larva, 14.vii.94, 19.vii.94, 3.viii.94, ITALY [Amalfi] (PS). There are eleven previous records from *P. machaon*.
- Cadruceia tritaeniata*** (Rondani). *Callophrys rubi* (L.) on *Erica tetralix*: 2 females, ex pupae, 4.vii.92, 1-5.v.93, 16-18.vi.93, Resipole, Argyll (MRS); on *Ulex gallii*: 1 female, ex pupa, 1.viii.93, 1994, Dorchester, Dorset (IC).
- Carcelia bombylans*** Robineau-Desvoidy. *Spilosoma luteum* (Hufnagel): 2 examples and brood of 2, ex larvae, 20-30.vii.93, 30.vii-6.viii.93, (puparia all dead, 2 males dissected out and examined), FRANCE [St. Jean du Gard, Gard] (MRS).
- Carcelia dubia*** (Brauer & Bergenstamm). Indet. lepidopteran: 1 male, ex larva, 10.vi.90, YUGOSLAVIA [Konecka] (PJCR).
- Carcelia gnava*** (Meigen). *Malacosoma neustria* (L.): 7 males, ex larvae, vi.92, and 2 males, ex larvae, 1997, Portslade, Sussex (ARC); 1 male, ex larva, 1971, Ham Street, Kent (DO'K/JMC-H); 1 male, ex ?prepupa, 18.vi.80, 1.vii.80, 16.vii.80, Sheffield Bottom, Berkshire (BTP); *Dasychira pudibunda* (L.): 1 male, ex prepupa, 4.ix.92, ix.92, Falmouth, Cornwall (THF).
- Carcelia laxifrons*** Villeneuve. *Malacosoma alpicolum* (Staudinger): 1 female, ex prepupa, 19.vii.97, 20.v.98, FRANCE [Col du Galibier, Hautes-Alpes] (MRS). New host record. Most records are from more or less hairy caterpillars, especially Lasiocampidae and Lymantriidae.
- Carcelia lucorum*** (Meigen). *Malacosoma neustria* (L.) on *Prunus*: 1 female, ex prepupa, 24.iv.86, 11.vii.86, 25.vii.86, Hurst, Berkshire (BTP); *Arctia caja* (L.): 2 broods of 3-4, ex prepupae, em. end xii.93 (reared indoors), Close House Slopes, Durham (HA); several broods (2 males, 3 females examined), ex prepupae, 1990, vi-vii.90, Wellingborough, Northamptonshire (JHP); brood of 3, ex prepupa, vi.92, Newcastleton, Roxburghshire (HMCH); brood of 3 males 3 females, ex prepupa, 9.v.87, 30.v.87, ca 6.vii.87, Tentsmuir, Fife (MRS); 1 male, ex larva, em. 4.vii.87, Southport, Lancashire (KCG); 3 males, 3 females, iv.48, 22-27.v.48, Crowcombe, Somerset (ECP-C); *Arctia villica* (L.): brood of 6 (2 females emerged), iv.86, 14.v.86, Dawlish Warren, Devon (HF/MH); *Diaphora mendica* (Clerck); brood of 7, ex prepupa, 1993, Portslade, Sussex (ARC); *Phragmatobia fuliginosa* (L.): 2 males, 1 female, ex prepupae, em. 27.iv.95, Turner Fold, Lancashire (SMP); brood of 4 (1 male emerged v.92), Sheffield, South Yorkshire (THF); brood of 3 females, ex prepupa, 11.iv.97, 13.iv.97, 4.v.97, Beeley Moor, Derbyshire (THF); 1 male, ex prepupa, 14.ii.97, 7.iii.97, Beeley Moor, Derbyshire (BS); *Callimorpha dominica* (L.): brood of 4 (3 females examined), 3-4.vii.93, Hinksey, Oxfordshire (DG); 13 examples from 3 hosts, ex prepupae, 27.vi.93, 2.vii.93, Cothill, Oxfordshire (DOF). *D. mendica* is a new host record.
- Catagonia aberrans*** (Rondani). *Thyris fenestrella* (Scopoli) on *Clematis*: 3 males, 5 females, ex pupae, 15.vii.93, 16.viii-20.ix.93, and 6 males, 5 females, ex pupae, 15.vii.93, 7-29.vi.94, FRANCE [Bédoin, Vaucluse] (MRS). These are the first reliable host records for this species, the two previous records, from *Eucosma lugubrana* Treitschke and *Monophadnus spinolae* Klug (Hym.: Tenthredinidae), being regarded as doubtful (Tschorsch, pers. comm.).
- Chetina setigena*** (Rondani). *Polyommatus izarus* (Rottemburg) on *Melilotus*: 1 male., ex prepupa, 10-15.vii.91, p.l.e. ca 25.vii.91, FRANCE [Bédoin, Vaucluse] (MRS). There are only two previous rearing records (from *Ematurga atomaria* (L) and *Athrolopha chrysitaria* (Geyer)) and both are regarded as questionable (Tschorsch, pers. comm.).
- Drino vicina*** (Zetterstedt). *Proserpinus proserpina* (Pallas) on *Epilobium hirsutum*: brood of 1 male 1 female, 19.vii.96, 27.vii.96, 24.vi.97-vii.97, FRANCE [Darbres, Ardèche] (MRS). The male emerged on 24.vi.97 but did not expand its wings until 26.vi.97.
- Erycia festinans*** (Meigen). *Melitaea cinxia* (L.): 2 females, ex pupae, 29.vii.90, vii.90, 10.ix.90, FRANCE [Lac du Castilgaillard, Lot-et-Garonne] (MRS); 1 male, 1 female, ex larvae, em. 12-13.v.96, GREECE [Evros, 25km north of Loutros] (PJCR).

- Erycia furibunda* (Zetterstedt). *Euphydryas desfontaini* (Godart): 1 male, ex pupa, 9.v.94, 4.vii.94, N. SPAIN (RJW); *Euphydryas aurinia* (Rottemburg): 1 female, ex pupa, collected as small larva, 11.viii.95, 2.v.96, 19.vi.96, ITALY [Mt. Subasio, Umbria] (MRS). *E. desfontaini* is a new host record. The pre-hibernation collection date of *E. aurinia* shows how this parasitoid's life cycle is organised.
- Lydella grisescens* Robineau-Desvoidy. *Luperina nickerlii* (Freyer): 1 female, ex larva, 16.vii.91, West Cornwall (JLG). New host record. The determination was confirmed by Dr. Tschorsnig.
- Nilea hortulana* (Meigen). *Acronicta psi* (L.): brood of 3, ex larva, 1.ix.92, 16.ix.92, 2-8.vii.93, Sheffield, South Yorkshire (THF); brood of 4 (1 male, 1 female emerged), ex larva, 1995, 1996, Portslade, Sussex (ARC); brood of 1 male 4 females, ex larva, 1997, North Staffordshire (LM); 1 example, ex larva, viii.62, 26.xi.62, West Wickham, Kent (JMC-H).
- Phryxe caudata* (Rondani). *Thaumetopoea pityocampa* (Denis & Schiffermüller): 3 males, 4 females, ex larvae, 10.i.95, 12.i.95, 15.ii.95, PORTUGAL [Faro, Algarve] (THF). There are numerous continental records from this host.
- Phryxe erythrostroma* (Hartig). *Hyloicus pinastri* (L.): brood of 12 (4 males, 7 females examined), ex pupa, viii.97, 2-5.vi.98, vii.98, Thetford Forest, Norfolk (GMH/RL). This is the first British record of this gregarious, specific parasitoid of *H. pinastri*, but the host larvae are seldom collected so there is no reason to suppose that it is a recent introduction. The determination was confirmed by Dr Tschorsnig.
- Phryxe heraclei* (Meigen). *Lasiocampa quercus* (L.): 1 male, ex larva, 6.ix.92, iii.93, v.93, Bissoe, Cornwall (THF); *Philudoria potatoaria* (L.): 1 example, ex larva, em. vii.82, Par, Cornwall (JLG). The vast majority of records are from *P. potatoaria*.
- Phryxe magnicornis* (Zetterstedt). *Zygaena filipendulae* (L.): 1 female, ex prepupa or pupa, em. 12.vii.96, Looe Island, Cornwall (WGT); 1 male, 2 females, ex larvae, 17.vi.97, Church Cove, Mullion, Cornwall (WGT); *Zygaena ?filipendulae*, brood of 1 male 2 females, ex prepupa, 20.vii.97, 23-26.vii.97, 4.viii.97, FRANCE [Col du Lautaret, Hautes-Alpes] (MRS); *Zygaena trifolii* (Esper): 5 males, 4 females, ex larvae or prepupae, em. viii.91, Common Moor NR, Newquay, Cornwall (WGT); 1 male, ex pupa, p.l.e. 30.vi.97, Bridestowe, Devon (WGT); *Zygaena loniceræ* (Scheven): 2 males, ex prepupae or pupae, 25.vii.96, viii.96, SWEDEN [Utö, Södermanland] (CE); *Zygaena transalpina* (Esper): 1 male, ex larva, 18.v.96, 25.v.96, 11.vi.96, FRANCE [St. Alèvre, Dordogne] (MRS); *Zygaena* sp.: 1 female, ex larva, em. 18.vii.91, Salisbury Plain, Wiltshire (SMP); 1 male, ex larva, 8.vii.93, 15.vii.93, Close House Slopes, Durham (HA); 1 female, cocoon, 17.vii.97, 26.vii.97, 4.viii.97, FRANCE [Col de Vars, Hautes-Alpes] (MRS); *Thymelicus lineola* (Ochsenheimer) on *Arrhenotherum*: 2 males, 2 females, ex larvae, 28.vi.97, vii.97, Caston, Norfolk (GMH); *Pieris rapae* (L.): 1 male, ex pupa, em. 12.vii.97, East Wittering, West Sussex (PJCR); *Quercusia quercus* (L.): 10 examples (1 male, 1 female emerged), ex larvae, vi.93, vi.93, Thompson Common, Norfolk (GMH); *Operophtera brumata* (L.) on *Myrica*: 5 males, 3 females, 8.vi.92, vii.92, viii.92, Loch Linnhe, Argyll (THF); *Ematurga atomaria* (L.) on *Myrica*: 1 male, 1 female, ex pupae, 4.vii.92, iv.93, Resipole, Argyll (MRS); 1 male, ex pupa, 22.vii.92, 1.v.93, Meathop Moss NR, Cumbria (MRS); *Chesias* sp. on *Sarothamnus*: 1 male, ex larva, 27.vii.93, 10.viii.93, 29.viii.93, FRANCE [Chambon, Puy-de-Dôme] (MRS); *Odezia atrata* (L.): 1 male, 2 females, ex larvae, 5.vi.97, 22-23.vi.97, vii.97, Coombsdale, Derbyshire (BS); *Lycia lapponaria* (Boisduval) on *Myrica*: brood of 3 (1 male, 1 female examined), vi.89, viii.89, Lochan Daimh (SMH); *Eramis defoliaria* (Clerck): brood of 2 males, ex larva, 29.v.93, 5.vi.93, 27.vi.93, and brood of 1 male 1 female, ex larva, 10.vi.93, 13.vi.93, 3.vii.93, Sheffield, South Yorkshire (THF); *Abrostola triplasia* (L.): brood of 3 females, ex larva, 20.vii.92, 8.viii.92, ix.92, Sheffield, South Yorkshire (THF). *Z. transalpina*, *O. atrata*, *L. lapponaria* and *A. triplasia* are new host records for this polyphagous parasitoid of exposed macrolepidoptera.
- Phryxe nemea* (Meigen). *Zygaena lotii* (Denis & Schiffermüller): 1 male, ex larva, 18.vi.95, vi.95, 12.vii.95, Tironan, Isle of Mull (DAB/RL); *Euchloe ausonia* (Hübner): 1 example, ex larva, 20.vii.97, viii.97, 19.viii.97, FRANCE [Col du Lautaret, 2000m, Hautes-Alpes] (MRS); *Quercusia quercus* (L.): 1 female, ex larva, 6.vi.98, Thetford, Norfolk (GN); *Strymonidia w-album* (Knoch): 1 female, ex larva, v.93, vi.93, Hockham, Norfolk (GMH); 4 examples,

ex pupae, 1997, Thetford, Norfolk (GN); *Aglais urticae* (L.): 1 female, ex pupa, 15.viii.97, 21.viii.97, 28.viii.97, Monk Sherborne, Hampshire (WG); *Pararge aegeria* (L.): 1 male, 1 female, ex larvae, iii.89, Worksop, Nottinghamshire (MCW); ? *Habrosyne pyritoides* (Hufnagel): brood of 1 male 1 female, ex prepupa, 4.ix.92, 25-26.ix.92, Church Gresley, Derbyshire (DB); indet. geometrid: 2 females, 3.vi.95, vi.95, FRANCE [St. Sever, Calvados] (THF); *Epirrita dilutata* (Denis & Schiffermüller): brood of 2 females, ex pupa, 29.v.93, 12.vi.93, 4.vii.93, Budby, Nottinghamshire (THF); *Operophtera brumata* (L.): 1 female, ex larva or prepupa, 22.v.93, 29.v.93, 20.vi.93, Sheffield, South Yorkshire (THF); *Agriopsis leucophaearia* (Denis & Schiffermüller): 1 female, ex larva, 2.vi.93, 10.vi.93, Sheffield, South Yorkshire (THF); *Spilosoma lubricipeda* (L.), semi-captive: 1 female, ex larva, 1997, Portslade, West Sussex (ARC); *Melanchnra persicariae* (L.) on *Pteridium*: 1 female, 4.ix.94, ca v.95, Beeley Moor, Derbyshire (THF); *Orthosia stabilis* (Denis & Schiffermüller): brood of 2 females, 1.vii.95, 8.vii.95, 21.vii.95, Loch Arkaig, Argyll (THF); *Phlogophora meticulosa* (L.): brood of 4 males 3 females, and brood of 5 males 3 females, ex larvae, 20.vii.92, ca 14.viii.92, ix.92, Moss Valley, Derbyshire (THF); brood of 10 (2 males, 1 female examined), ex larva, 2.ix.93, 10.x.93, Beeley Moor, Derbyshire (THF); plusine noctuid; 1 example, ex pupa, ix.97, x.97, Tangmere, Sussex (PJCR). *Z. loti*, *E. ausonia* and *A. leucophaearia* are new host records for this highly polyphagous parasitoid of exposed lepidoptera.

Phryxe prima (Brauer & Bergenstamm). *Zygaena carniolica* (Scopoli): 3 males, 1 female, ex prepupae or pupae, em. vii.1991, TURKEY [Atatürk Orman, 1050m, Ankara] (WGT); *Zygaena cuvieri* Boisduval: 3 males, ex prepupae, em. vi.1989, TURKEY [Adana] (WGT); ? *Heterogynis* sp.: 1 male, ex larva, em. 4.vii.90, SPAIN [Madrid] (JG). *Z. cuvieri* is a new host record.

Phryxe unicolor (Villeneuve). *Abraxas pantaria* (L.) on *Fraxinus*: 1 female, ex pupa, x.96, 27.v.97, PORTUGAL [Santo Andre, Sines, Setubal] (CWP). Dr. Tschorsnig writes " *P. unicolor* is an interesting record. This rare species was known before only from southern France; its hosts were unknown. However, a few months ago I received material for identification from Spain (prov. Barcelona) which was also reared from *A. pantaria* during the year 1997."

Phryxe vulgaris (Fallén). *Zygaena fausta* (L.): 1 male, 1 female, em. 1989, PORTUGAL [Baixa Alentejo] (WGT); *Thymelicus acteon* (Rottemburg): 1 male, ex larva, coll. and em. 1997, Dundy Head, Lulworth, Dorset (NADB/BGd); *Pieris rapae* (L.): 1 male, ex pupa, 1996, 1997, Portslade, Sussex (ARC); *Anthocharis cardamines* (L.): 2 males, ex pupae, em. 15-20.vii.93, Chelmsford, Essex (KU); 1 male, ex pupa, 1993, end iv.94, Bartley, Hampshire (JG); *Lycaena phlaeas* (L.): 1 female, ex pupa, ix.92, Biggleswade, Bedfordshire (RR); *Lycaena dispar* (L.), semi-captive colony of ssp. *bataxus* (Oberthür) on *Rumex obtusifolius*: 1 male, 2 females, ex larvae, em. ix.95, and 2 broods each of 2 females, 12.v.96, 10.vii.96, Woodwalton Fen, Huntingdonshire (LM); *Aglais urticae* (L.): brood of 2 females, ex larva, 30.vii.92, viii.92, and brood of 1 male 1 female, vii.92, ix.92, 22-25.ix.92, Treeton, South Yorkshire (THF); *Pseudoterpnina pruinata* (Hufnagel) on *Ulex gallii*: 3 females, ex larva and pupa, 22-23.v.97, 1.vi.97, 18-19.vi.97, Fedw Fawr, Anglesey (MRS); *Lycia hirtaria* Clerck: 1 male, 1 female, ex larva, vi.91, iv.92, v.92, FRANCE [8km. N. of Frejus, Var] (THF); *Odezia atrata* (L.): 1 male, 1 female, vi.97, vii.97, Coombsdale, Derbyshire (BS); *Hecatera dysodea* (Denis & Schiffermüller) on *Lactuca*: brood of 1 male 1 female, ex larva, and 1 male, ex pupa, p.l.e. ix.98, em. 4-8.x.98, Gravesend, Kent (RH); brood of 1 male 1 female, 28.viii.98, ix.98, x.98, Gravesend/Swanscombe, Kent (RH); *Calophasia lunula* (Hufnagel): 1 female, ex larva, 1973, Dungeness, Kent (DO'K/JMC-H). *Z. fausta*, *L. dispar bataxus* and *H. dysodea* are new host records for this very polyphagous parasitoid of exposed lepidoptera.

Pseudoperichaeta nigrolineata (Stephens in Walker). *Choreutis nemorana* (Hübner): 1 male, 1 female, ex larvae, S. FRANCE (JLG); ? tortricid in *Quercus* leaf roll: 1 male, ex pupa, 5.vi.83, 1.vii.83, Hampstead Heath, London (RAS); *Cacoecimorpha pronubana* (Hübner) or *Archips podana* (Scopoli): 2 males, ex pupae, em. 6.vi.94, Folkestone, Kent (MT); *Eurrhynpara hortulata* (L.) collected as cocoon under bark of *Acer pseudoplatanus*: 1 male, ex prepupa., 19.i.94, 17.ii.94, London (DH); microlepidopteran, perhaps *Eurrhynpara hortulata* (L.) on *Urtica*: 1 female, ex prepupa, 6.viii.83, 24.viii.83, Hampstead Heath, London (RAS); *Udea lutealis* (Hübner): 1 example, ex larva, 9.vii.67, vii.67, Perwick Bay, Port St. Mary, Isle of

Man (JMC-H); *Cnaemidophorus rhododactyla* (Denis & Schiffermüller): 1 male, 1 female, ex larvae, em. 1993, Seward Stonebury, Essex (MSP); indet. tortricid in *Colutea* pods: 1 example, ex larva, 9.vii.97, 27.vii.97, FRANCE [Nans les Pins, Var] (MRS). *C. nemorana*, *U. lutealis*, and *C. rhododactyla* are new host records for this rather polyphagous parasitoid of medium to large sized microlepidoptera.

Pseudoperichaeta palesoidea (Robineau-Desvoidy). Indet. microlepidopteran in rolled leaf of *Centaurea*: 1 female, ex pupa, 19.vii.97, 24.vii.97, 6.viii.97, FRANCE [Col du Galibier, Hautes-Alpes] (MRS). There are records from Oecophoridae and Tortricidae.

Senometopia susurrans (Robineau-Desvoidy). *Semiothisa clathrata* (L.): 1 male, 3 females, puparia in host pupae, 22.vii.93, 3-13.ix.93, FRANCE [Limogne, Lot] (MRS). This is the first reliable host record for this species (Tschorsnig, pers. comm.).

Tlephusa cincinna (Rondani). *Mesoacidalia aglaja* (L.): 1 male, ex pupa, vi.96, FINLAND [Lapinjärvi] (AK/JP). This is probably the first reliable rearing record for this species as the previous records from *Hyloicus pinastri* (L.) are considered doubtful (Tschorsnig, pers. comm.).

Townsendiellomyia nidicola (Townsend). *Euproctis chrysorrhoea* (L.): 4 males, 2 females, ex larvae, 1991, 1 female, 1993, Portslade, Sussex (ARC). This specialist parasitoid of *E. chrysorrhoea* is probably more widespread along the south coast of England than previously thought.

Exoristini

Exorista fasciata (Fallén). *Zygaena filipendulae* (L.): 1 male, ex prepupa, em. 1.vii.97, Burren, Co. Clare, Ireland (WGT&SMT); *Zygaena* sp.: 1 male, ex cocoon, em. vii.93, Shrewton Folly, Wiltshire (SMP); indet. Lithosiinae: 1 male, ex larva, em. vi.93, Boscombe Down, Wiltshire (SMP). First rearing record of this species from Lithosiinae. See also corrections to Ford & Shaw (1991) at the end of this paper.

Exorista larvarum (Linnaeus). *Calophasia lunula* (Hufnagel) on *Linaria*: 1 female, ex larva, 4.vii.91, 19.ii.92, GERMANY [Baden-Württemberg] (JFB); indet. lepidopteran on *Salix*: brood of 2 females, ex pupa, vi.84, 1984, FRANCE [Ille d'Olonne, Vendée] (NH). *C. lunula* is a new host record.

Exorista segregata (Rondani). *Zygaena fausta* (L.): 3 examples, ex prepupae or pupae, em. 20.iv-13.v.1989, PORTUGAL [Baixa Alentejo] (WGT). This is a new host record; the parasitoid is also known from 7 other *Zygaena* species.

Goniini

Cyzenis albicans (Fallén). *Ypsolopha vitella* (L.): 1 male, ex larva, 10.vi.89, iv.90, Edinburgh (MRS); *Operophtera brumata* (L.): 9 puparia in 9 pupae, 27.v.95, unemerged, Blackford Hill, Edinburgh, (MRS); 15 examples (1 male, 1 female emerged), v. 95, Bonar Bridge, Sutherland (JK); on *Prunus*: 3 examples, ex pupae, 4.vi.94, 21-30.iv.95, Gait Barrows NNR, Lancashire (MRS).

Eumea linearicornis (Zetterstedt). ? *Archips podana* (Scopoli): 1 male, ex larva, 5.vii.86, viii.86, Cornwall (JLG); *Aphelia paleana* (Hübner): 1 example, ex pupa, 26.vii.75, Sugar Loaf Hill, Folkestone, Kent (JMC-H); indet. lepidopteran: 1 female, ex larva, vi.92, 1996, Portslade, Sussex (ARC).

Masicera pavoniae (Robineau-Desvoidy). *Saturnia pavonia* (L.): 18 puparia seen, part broods from 25 affected larvae, vi.33, FRANCE [Dordogne] (KJS).

Masicera sphingivora (Robineau-Desvoidy). *Hyles euphorbiae* (L.) on *Euphorbia characias*: 3 males, 9 females from 2 pupae, 15.xi.96, iv.97, FRANCE [Plateau de Vernegues, Bouches-du-Rhône] (DC); *Hyles centralasiae* (Staudinger), semi-captive colony of ssp. *siehei* (Püngeler): 1 female, ex pupa, 1987, iii.98, AUSTRIA [Sollenuau] (AP). *H. centralasiae* is a new host record.

Ocytata pallipes (Fallén). *Forficula auricularia* (L.) (Dermaptera: Forficulidae): 1 female, adult, 11.ix.92, 13.ix.92, 15.xi.92, Burrington Coombe, Somerset (THF).

Pales pavidia (Meigen). *Zygaena filipendulae* (L.): 3 examples, ex prepupae, Jacob's Well, Surrey (WGT); 1 male, ex larva, em. 23.vi.95, St. Michael's Mount, Cornwall (WGT); 1 female, ex prepupa, 17.vi.97, Mullion Cove, Cornwall (WGT); *Zygaena lonicerae* (Scheven): 1 male,

prepupa, 15.vii.97, 29.vii.97, Sheffield, South Yorkshire (THF); 1 male, ex prepupa, em. vi.1997, Wirksworth, Derbyshire (BS); *Cacoecimorpha pronubana* (Hübner): 1 example, ex larva, vii.65, Camberwell, London. (AME/JMC-H); *Thymelicus acteon* (Rottemburg): 1 male, coll. and em. 1997, Dungey Head, Lulworth, Dorset (NADB/BGd); *Colias croceus* (Geoffroy): 1 male, 2 females, ex larvae, em. 5-12.xii.96, Worksop, Nottinghamshire (MCW) (Specimens returned to rearer); *Lycaena dispar* (L.), semi-captive colony of ssp. *batavus* (Oberthür): 1 male, 1 female, and a brood of 1 male 1 female, ex larvae, 1997, Woodwalton Fen, Huntingdonshire (LM); *Aglais urticae* (L.): brood of 2 (1 male emerged), ex pupa, 16.vii.97, 20.vii.97, 6.viii.97, Sheffield, South Yorkshire (THF); *Coenonympha tullia* (Müller): 1 male, ex 5th. instar larva, 1.v.97, 13.v.97, 31.v.97, Hatfield Chase, Yorkshire (MCW) (Specimens returned to rearer); *Malacosoma neustria* (L.): 2 males, em. vi.92, Portslade, Sussex (ARC); *Lycia lapponaria* (Boisduval) on *Myrica*: 2 females, 4.vii.92, vii-viii.92, 14.viii-ix.92, Resipole, Argyll (MRS); *Euproctis chryssorrhoea* (L.): 1 male, em. vi.92, 1 male, ex larva, 1996, Portslade, Sussex (ARC); 2 males, 1 female, 5.vi.95, 17.vi.95, London (GK); *Spilosoma lubricipeda* (L.), semi-captive: 1 male, ex larva, 1997, Portslade, West Sussex (ARC); *Xestia* sp.: 6 examples, ex larvae, 4.xi-15.xii.93, 27.xii.93-10.i.94, 7-24.i.94, Heddon-on-the-Wall, Northumberland (HA); *Orthosia miniosa* (Denis & Schiffermüller) on *Quercus mas*: 1 male, ex larva, 18.v.96, 9.vi.96, 28.vi.96, FRANCE [St. Alvère, Dordogne] (MRS); *Orthosia gracilis* (Denis & Schiffermüller) on *Myrica*: 6 males, 1 female, ex larvae, 4.vii.92, vii.92, viii.92, Resipole, Argyll (MRS); *Orthosia stabilis* (Denis & Schiffermüller) on *Quercus*: 1 female, ex larva, 1.vii.95, 13.vii.95, 26.vii.95, Loch Arkaig, Argyll (THF); ? *Orthosia gothica* (L.): 1 male, ex larva, 5.vii.86, viii.86, Cornwall (JLG); *Mythimna* sp.: 1 male, ex larva, 3.iv.95, 8.iv.95, Sheffield, South Yorkshire (THF); *Calophasia lunula* (L.): 1 male, 1973, Dungeness, Kent (DO'K/JMC-H); *Xylena vetusta* (Hübner): 1 male, p.l.e. vii.92, em. 11.viii.92, Resipole, Argyll (MRS); *Spodoptera ciliatum* (Guenée), captive: 1 male, ex larva, v.93, 1993, Caxton, Norfolk (GMH); plusiine larva on *Medicago*: 1 female (very small), 27.vii.96, x.96, Cothill, Oxfordshire (ARC). *C. pronubana*, *T. acteon*, *C. croceus*, *L. dispar*, *C. tullia*, *L. lapponaria* and *S. ciliatum*, are new host records and, as far as we can ascertain, the rearing from *C. tullia* is the first record of a tachinid reared from this species (which is seldom collected as a larva).

Phryno vetula (Meigen). *Orthosia miniosa* (Denis & Schiffermüller) on *Quercus mas*: 1 male, ex pupa, 18.v.96, 19.iii.97, FRANCE [St. Alvère, Dordogne] (MRS).

Sturmia bella (Meigen). *Vanessa atalanta* (L.) on *Parietaria*: 1 male, ex pupa, 20.vii.93, viii.93, 25.viii.93, FRANCE [St. Jean du Gard, Gard] (MRS); *Aglais urticae* (L.): 1 male, ex larva, vii.94, 17.vii.94, vii-viii.94, FRANCE [Manche] (GEK); *Inachis io* (L.): 1 male (determination confirmed by Dr Tschorsnig), ex pupa, 6.vii.98, vii.98, 26.vii.98, Bartley, Southampton, Hampshire (JG). The rearing from *I. io* is the first British record for *S. nella*, which is a common parasitoid of Nymphalidae on the European mainland. As several of these are among the most commonly reared Lepidoptera, it seems probable that *S. bella* is a recent arrival in Britain, possibly released following the importation of caterpillars from abroad.

Winthemiini

Nemorilla floralis (Fallén). *Eurrhynx hortulata* (L.) on *Urtica*: 1 female, ex larva, 1979, iv.80, 15.v.80, Hampstead Heath, London (RAS); *Pleuroptya ruralis* (Scopoli): 1 male, ex pupa, 16.vi.93, 23.vi.93, 6.vii.93, South Yorkshire (THF); brood of 3, ex pupa, vii.93, vii.93, Catcliffe, South Yorkshire (THF); brood of 1 male 1 female, ex pupa, 16.vi.93, 3-4.vii.93, and 1 male, ex prepupa, 29.v.93, 5.vi.93, 28.vi.93, Treeton, South Yorkshire (THF); *Autographa gamma* (L.): 1 male, 1 female, ex pupae, em. 8.ix.72, Catcliffe, South Yorkshire (THF); on *Symphytum*: 1 male, 1 female, ex pupae, 1.v.95, v.95, vi.95, Catcliffe, South Yorkshire (THF).

Smidtia conspersa (Meigen). *Alosphila aescularia* (Denis & Schiffermüller) on *Betula*: 1 male, ex pupa, 11.vi.94, 21.iv.95, Silwood Park, Berkshire (MRS); *Epirrita* sp. on *Corylus*: 1 male, ex pupa, 13.v.90, 24.iv.91, Gait Barrows NNR, Lancashire (MRS); on *Crataegus*: 1 male, ex larva, 27.v.89, 9.iv.90, WITHERSLACK, CUMBRIA (MRS).

Winthemia quadripustulata (Fabricius). *Aphelia paleana* (Hübner) on *Tussilago*: 1 male, ex larva, 7.vi.80, 4.vii.80, Blackford Hill, Edinburgh (MRS); *Cucullia scrophulariae* (Denis &

Schiffmüller): brood of 7, ex larva, em. 2-4.viii.92, SPAIN [Navarra] (BG); *Cucullia verbasci* (L.) on *Verbascum*: 5 males, 7 females, and 12 males, 13 females in broods of 5-12 from several hosts, ex larvae, 17.vii.93, viii-ix.93, FRANCE [Chambon, Puy-de-Dôme] (MRS). *A. paleana* is a new host record.

TACHININAE

Ernestiini

Ernestia rudis (Fallén). *Xylena vetusta* (Hübner): 1 male, ex larva, 4.vii.92, vii.92, 27.iv.93, Resipole, Argyll (MRS). On the continent this is the most important parasitoid of *Panolis flammea* (Denis & Schiffmüller), with numerous records. This is the first record from *X. vetusta*.

Ernestia vagans (Meigen). *Achlya flavicornis* (L.) on *Betula*: 1 male, ex prepupa, 30.vi.82, p.l.e. ca viii.82, dissected from puparium, Muir of Dinnet NNR, Aberdeenshire (MRS).

Eurithia anthophila (Robineau-Desvoidy). *Spilosoma luteum* (Hufnagel): 2 puparia, ex prepupae, 5.ix.82, p.l.e. ix.82, unemerged, Beech Hill, Berkshire (BTP).

Eurithia caesia (Fallén). *Hadena* sp. in pod of *Silene vulgaris*: 1 male, ex larva, 27.vii.93, 3.viii.93, 29.iv.94, FRANCE [Chambon, Puy-de-Dôme] (MRS). Mostly recorded from *Hadena* spp.

Graphogastrini

Graphogaster brunnescens Villeneuve. ? *Telediodes proximella* (Hübner) on *Betula*: 3 males, ex larvae, ix.84, Leac Gorm, Ballater, Aberdeenshire (MRY). This appears to be the first rearing record for Britain and, if the host is correct, it is also a new host record, although it has been reared in Europe from *Telediodes notatella* (Hübner) and other arboreal microlepidoptera.

Phytomytera cingulata (Robineau-Desvoidy). *Nemopogon cloacella* (Haworth) on fungus on *Quercus*: 1 male, ex larva, 7.ii.87, vi.87, Leaderfoot, Roxburghshire (KPB).

Phytomytera nigrina (Meigen). *Gypsonoma minutata* (Hübner) on *Populus tremula*: 1 female, ex larva, collected 12.vii.98, noted 1.viii.98, SPAIN [Juslibol, Zaragoza] (GEK); *Adaina microdactyla* (Hübner) in *Eupatorium* stem: 1 female, 29.iv.79, 24.v.79, Catfield, Norfolk (MRS); indet. microlepidopteran on *Betula pubescens*: 1 male, ex larva, 27.vi.94, em. 1994, Botley Wood, Hampshire (JRL).

Linnaemyini

Lypha dubia (Fallén). *Tortrix viridana* (L.): 2 males, 3 females, ex prepupae, 10.v.93, vii.93, 6-12.iv.94, Budby, Nottinghamshire (THF); 1 male, 29.v.93, vi.93, 19.iv.94, Nottinghamshire (THF); *Operophtera brumata* (L.): 1 example, ex prepupa, 13.v.90, v-vi.90, 1991, 1 male, ex prepupa, 4.vi.94, 8.vi.94, 21.iv.95, 1 female, ex prepupa, 4.vi.94, 30.v.95, Gait Barrows NNR, Lancashire (MRS); 22 examples, ex prepupae, 27.v.95, 1996, Edinburgh (MRS); 16 puparia, 27.v.95, Blackford Hill, Edinburgh (MRS); 3 puparia (2 males emerged), v.95 Bonar Bridge, Sutherland (JK); on *Crataegus*: 1 male, 27.v.90, 11.iv.91, Gait Barrows NNR, Lancashire (MRS).

Macquartiini

Anthomyopsis plagioderae Mesnil. *Plagiodera versicolora* (Laicharting) (Col.: Chrysomelidae): 4 examples, adults, em. vii.97, Kew, London (DH). Owing to an accident only one specimen remains. *A. plagioderae* is here recorded from Britain for the first time. There are ten previous continental records from this host and one from the chrysomelid *Phyllodecta vitellinae* (L.).

Nemoraeni

Nemoraea pellucida (Meigen). *Chrysodeixis chalcites* (Esper): 3 males, 1 female, ex pupae, coll. and em. 1988, N.W. YUGOSLAVIA (JLG). New host record.

Pelatachinini

Pelatachina tibialis (Fallén). *Vanessa atalanta* (L.): 2 puparia, p.l.e. 26.vi.96, unemerged, St. Catherine's Point, Isle of Wight (AS); *Aglais urticae* (L.): 15 examples, ex larvae, 29.vi.92, 1993, Wellingborough, Northamptonshire (JHP); 8 examples ex 6 hosts (1 male examined), ex larvae, 18.vi.96, 27.vi.96, 15.iv.97, Wellingborough, Northamptonshire (PT); 10 examples

(1 male emerged), ex larvae, 2.vii.95, 5.vii.95, vi.96, Ardour, Argyll (THF); *Inachis io* (L.): 3 males, 3 females, ex larvae, 7.vii.73, ca 20.vii.73, iv.74, Stroud, Gloucestershire (MRS); 1 example, ex larva, (unknown dates), Redditch, Worcestershire (JM); 1 male, ex larva, 12.vii.93, 25.vii.93, viii.93, Catcliffe, South Yorkshire (THF); 1 female, ex larva, 25.vii.96, 1.viii.96, em. 1997, Thorpe Wood, Co. Durham (HAE).

Siphonini

Actia crassicornis (Meigen). *Agonopterix nervosa* (Haworth) (det. J.R.Langmaid) on *Ulex*: 1 male, 5 females, ex prepupae, 12.v.97, vi.97, vii.97, Strontian, Argyll (THF); 3 males, 3 females, ex prepupae, 17.vi.98, vi.98, vii.98, Ardour, Argyll (THF).

Actia lamia (Meigen). Indet. microlepidopteran in dead stem of *Cirsium arvense*: 1 male, ex larva, 2.ii.97, 23.vi.97, Yellowcraigs, East Lothian (MRS). Reliable records only from Tortricidae.

Actia pilipennis (Fallén). *Caloptilia syringella* (Fabricius) on *Syringa*: 1 female, ex prepupa, 16.vii.98, 23.vii.98, 1.viii.98, Sheffield, South Yorkshire (THF); *Cnephasia* sp. on *Urtica*: 1 male, ex larva, puparium collected 22.vii.93, 3.viii.93, FRANCE [Limogne, Lot] (MRS); *Xerocephasia rigana* (Sodoffsky) on low *Clematis*: 8 males, 9 females, ex larvae, 15.vii.93, vii-viii.93, FRANCE [Bédoin, Vaucluse] (MRS); *Acleris hastiana* (L.) on *Salix salvifolia*: 2 females, 11.iv.94, 8-11.v.94, PORTUGAL [Bordeira] (MFVC); indet. tortricid on *Myrica*: 1 male, ex larva, 1.ix.89, ix.89, 25.x.89, Aberfoyle, Perthshire (MRS); 1 male, 19.vi.88, 5.vii.88, Loch Tulla, Argyll (RPK-J); indet. larva on *Salix*: 1 male, 19.vii.86, 9.viii.86, West Cornwall (JLG); indet. microlepidopteran on *Rosa*: 1 female, ex larva or prepupa, 1997, Staffordshire (LM). *C. syringella*, *X. rigana* and *A. hastiana* are new host records.

Actia resinellae (Schrank). *Cydia coniferana* (Ratzeburg): 1 example, 18.iv.71, 10.v.71, Oakham Common, Surrey (JMC-H). New host record.

Ceromya bicolor (Meigen). *Eriogaster lanestris* (L.) on *Betula*: 2 females, ex larvae, 29.vii.91, FRANCE [Col du Lautaret, Hautes-Alpes] (MRS); *Lasiocampa quercus* (L.): brood of 22 (2 males, 2 females emerged), ex larva, 30.vii.92, 3.viii.92, iv-v.93, and brood of 21 (1 male emerged), ex larva, p.l.e. 24.vii.94, em. 20.v-11.vi.95, Loch Eriboll, Sutherland (MRS); 37 puparia (1 female emerged), ex larva, 23.vi.97, 30.vi.97, Shorne, Kent (MJ); 35 puparia (6 emerged), 1994, Portslade, Sussex (ARC); brood of 18 (1 male, 2 females emerged), p.l.e. 15.vii.92, em. viii.92, Burrival, North Uist (KPB); brood of 63 (5 received), ex larva, 29.vii.88, p.l.e. 31.vii.88, eclosion not observed, Gleniffer Braes Country Park, Renfrewshire (MAH).

Goniocera versicolor (Fallén). *Malacosoma neustria* (L.): 1 female, ex larva, 1997, Portslade, Sussex (ARC).

Peribaea apicalis Robineau-Desvoidy. *Semiothisa clathrata* (L.): 3 males, ex larvae, 22.vii.93, 30.vii-2.viii.93, 8.viii-20.viii.93, FRANCE [Limogne, Lot] (MRS); ? *Semiothisa clathrata* (L.): 1 female, ex larva, 19.vii.96, 8.viii.96, FRANCE [Darbres, Ardèche] (MRS). New host record.

Peribaea setinervis (Thomson). *Agriopsis* or *Erannis* sp.: 1 female, 7.v.90, v.90, 18.vi.90, Thompson Common, Norfolk (GMH).

Peribaea tibialis (Robineau-Desvoidy). Indet. satyrid: 1 female, ex larva, 2.viii.90, 30.viii.90, FRANCE [Vers, Lot] (MRS); ? *Noctua interjecta* (Hübner): brood of 6 males 2 females, ex larva, 15.v.96, 1.vi.96, ca 15.vi.96, FRANCE [Bernac, Lot-et-Garonne] (MRS); *Mythimna* sp.: 1 female., ex larva, 25.vii.93, 29.viii.93, FRANCE [Riberac, Dordogne] (MRS); *Ammoconia caecimacula* (Denis & Schiffermüller): 1 male, 2 females, ex larvae, 18.v.96, 1.vi.96, 17.vi.96, FRANCE [St. Alvére, Dordogne] (MRS); *Aporophyla lutulenta* (Denis & Schiffermüller) on *Convolvulus*: 1 male, ex larva, 4.vii.97, SPAIN [Tarragona] (GEK). *N. interjecta*, if the identification is correct, *A. caecimacula* and *A. lutulenta* are new host records.

Siphona confusa Mesnil. Indet. geometrid larva on Compositae: 1 example, ex prepupa, 18.vii.97, 22.vii.97, iv.98, FRANCE [Col de Vars, Hautes-Alpes] (MRS). This is the first host record of the true *confusa* (cf. Andersen, 1996) (Tschorsch, pers. comm.).

Siphona cristata (Fabricius). *Mamestra brassicae* (L.) on *Chenopodium*: 3 males, ex pupae, viii.93, vii.94, East Wretham, Norfolk (GMH).

Tachinini

Tachina fera (Linnaeus). *Ceramica pisi* (L.): 1 male, ex pupa, em. 1994, Salisbury Plain, Wiltshire (DR). Mainly parasitic on noctuid larvae, with numerous species recorded. Occasional records from Lymantriidae.

Tachina grossa (Linnaeus). *Macrothylacia rubi* (L.): 1 female, 24.iii.98, 22.v.98, Beeley Moor, Derbyshire (BS).

Triarthriini

Triarthria setipennis (Fallén). *Forficula auricularia* (L.) (Dermoptera: Forficulidae): 2 females, adult and nymph, 1.v.95, vi.95, Catcliffe, South Yorkshire (THF); indet. earwig remains in stem of *Heracleum*: 1 male, ? adult, 25.x.81, 8.vii.82, Drayton St. Leonard, Oxfordshire (MRS).

Corrections to Ford & Shaw (1991)

Page 24. *Exorista larvarum* (L.): The record in Ford & Shaw (1991) of 4 males and 5 females from *Parasemia plantaginis* (L.) at Ailsa Craig is in error as the material has been reidentified as *Exorista fasciata* (Fallén).

Page 31. *Pales pavidus* (Meigen): in the first record given by Ford & Shaw (1991) from *Orthosia stabilis* (Denis & Schiffermüller) on line 19, delete "viii.82" and insert "vi.88".

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An index of entomology sites on the internet

The editor is in the process of compiling a list of internet/web sources of entomology information that are of relevance to British entomologists. Although searching the internet is relatively easy, at least for those who know how or who, like me, have teenage larvae who can do it for them, it strikes me as being even easier to have a readily available index of the main sources. Several county moth groups now have their own web site (Essex, Suffolk and Norfolk are so far known to me); several organisations, such as the Lancashire and Cheshire Entomological Society and the British Entomological & Natural History Society, have their own sites too and there are a number of special interest bulletin boards, discussion groups and so on. Additionally, many individual entomologists have their own web sites which, in some cases, may contain information that is of interest to others, or links to other appropriate sites.

Readers are invited to supply me with the address of any site that is considered likely to be of interest to other entomologists, along with a note of, in very general terms, what the site is about. I do not want to hear about sites under construction, but please do advise me as soon as these sites become operative.

A provisional list will be published in this journal later this year and links will be available from my own web site (currently under construction) in due course.—
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